025 Bit Calculator

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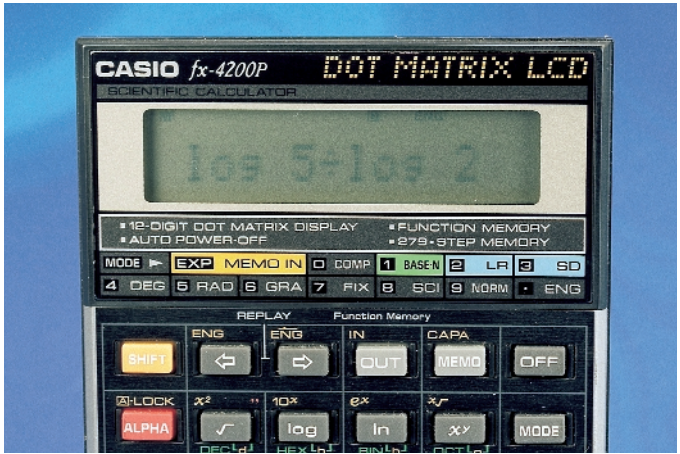
Suppose you want to make a counter that can count from 0 to a certain decimal number M. If you want to implement this as a binary counter, you can calculate how many bits you need with a simple pocket calculator, using the following formula:

$$N = \frac{{}^{10}\log(M)}{{}^{10}\log(2)}$$

In principle, you can use any logarithm, including ln( )! Don't forget that you must round off the result!

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